

# Dragan Huterer

## Curriculum Vitae (February 2022)

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<b>Academic Positions</b>	<b>University of Michigan, Department of Physics</b>		
	Professor	<i>2017 – present</i>	
	Associate Professor	<i>2012 – 2017</i>	
	Assistant Professor	<i>2007 – 2012</i>	
	<b>University of Chicago</b>	<i>2004 – 2007</i>	
	NSF postdoctoral fellow at Kavli Institute for Cosmological Physics and the Department of Astronomy and Astrophysics.		
	<b>Case Western Reserve University</b>	<i>2001 – 2004</i>	
	Research Associate in the Particle-Astrophysics Group, Physics department.		
<b>Education</b>	<b>University of Chicago</b>	<i>1996 – 2001</i>	
	Ph.D. in Physics. Advisor: Michael Turner. Thesis title: “Weak Lensing and Dark Energy”.		
	<b>Massachusetts Institute of Technology</b>	<i>1992 – 1996</i>	
	Bachelor of Science degree in Physics with minors in Mathematics and French.		
<b>Honors</b>	Bessel Research Prize (given by the Humboldt Foundation; Germany).	<i>2018</i>	
	Fellow of the American Physical Society.	<i>Elected 2017</i>	
	Henry Russel Award (by UM LSA).	<i>2014</i>	
	DOE Outstanding Junior Investigator (OJI).	<i>2008 – 2012</i>	
	NSF Astronomy and Astrophysics Postdoctoral Fellowship (AAPF)	<i>2004 – 2007</i>	
	Abdul Latif Jameel/Toyota Scholarship (at MIT).	<i>1995 – 1996</i>	
	Member, Sigma Pi Sigma, National Physics Honor Society.	<i>Elected 1995</i>	
<b>Mentoring</b>	Mentored and supported five postdoctoral fellows and 14 graduate students (of whom eight already received PhDs and six more are currently working toward them). Also mentored in research approximately 15 undergraduates.		
<b>Professional Service</b>	Coorganizer, Tehran Meeting on “Cosmology at a Crossroads”.	<i>2021</i>	
	Organizer, Michigan Cosmology Summer School (250 virtual participants).	<i>2020</i>	
	Chair, cosmology section of NASA Einstein-Hubble-Sagan fellowship panel.	<i>2019</i>	
	Editor, Astroparticle Physics.	<i>2013-2021</i>	
	Served on multiple DOE, NASA and NSF proposal review panels (about 2/year), as well as panels of funding agencies of Austria, Chile, Germany, and Portugal.		<i>2007-present</i>
	Referee (about 20 times/year) for physics journals (Phys. Rev. D, Phys. Rev. Lett., Mon. Not. Royal Astr. Soc., Astrophys. J., etc.).		<i>2007-present</i>

Organizer, DES Y3 workshop at LCTP, University of Michigan. *2018*

Organizer, COSMO-16 conference (~300 participants), University of Michigan. *2016*

Organizer, Aspen Center for Physics workshop “Testing the Laws of Gravity with Redshift Surveys”. *2016*

Organizer, Aspen Center for Physics workshop “Non-Gaussianity as a Window to the Primordial Universe”. *2012*

Co-author of the DOE Community Dark Energy Task Force Report which identifies opportunities and key missing components in the current DOE Cosmic Frontier program. (<http://science.energy.gov/hep/hepap/meetings/20120827>). *2012*

Organizer, Non-Gaussianity Workshop (~70 participants), Michigan Center for Theoretical Physics. *2011*

Organizer, Workshop on Low-multipole and Large Angle Cosmology (~40 participants), Case Western Reserve University. *2010*

Member of the DOE committee to Figure of Merit for the Joint Dark Energy Mission (JDEM) competition. *2008-2009*

Lead Guest Editor of the Special Issue of the journal *Advances in Astronomy* on “Testing the Gaussianity and Statistical Isotropy of the Universe”. *2009 – 2010*

**Professional Service (UMich)**

Faculty search committee. *2016-2020*

Advisor, Physics (undergraduate) students. *2015-2020*

Executive Committee, Physics Department. *2013, 2014*

Executive Committee, Leinweber Center for Theoretical Physics. *2011-2020*

Rackham Predoctoral Award committee. *2014*

UM Physics graduate admissions committee. *2009-11, 2012-2014, 2022*

Advisor to UM Society of Physics Students. *2012-2014*

Colloquium organizing committee. *2010-11, 2012-2014*

Williams Award and Honors Senior Thesis committee. *2011*

HEP-astro seminar organizing committee. *2007-2010, 2018*

**Observational experiments**

Member of the Dark Energy Survey (DES), and member of the Dark Energy Spectroscopic Instrument (DESI) collaboration. The two surveys start(ed) operation in 2013 and 2019, respectively. Currently co-chair of the DESI Likelihood Key Project.

**Citation statistics**

Statistics	INSPIRE	ADS	Google Scholar	
total cites	17780	16777	19749	
cites/author	—	3795	—	
h-index	67	65	67	

6 papers are topcite 500+, 8 papers are topcite 250+, and another 28 papers are topcite 100+ according to INSPIRE.

<b>Funding (PI only)</b>	DOE Huterer portion of umbrella grant, \$600,000	2021-23
	Friedrich Bessel Award by Humboldt Foundation, €45,000	2020-21
	NASA Astrophysics Theory Grants, \$444,665	2020-23
	NSF Huterer portion of AAG, \$172,000	2018-21
	DOE Huterer portion of umbrella grant, \$240,000	2018-21
	NSF support for COSMO-16 \$5,040	2016
	Michigan Inst. for Res. in Astrophysics support for COSMO-16 \$24,000	2016
	NASA Astrophysics Theory Grants, \$334,260	2015-18
	LSA Associate Professor Support Fund, \$92,941	2015-17
	DOE Huterer portion of umbrella grant, \$300,000	2015-18
	NSF AAG supplement, \$59,740	2014-15
	NSF AAG supplement, \$66,508	2013-14
	DOE Huterer portion of umbrella grant, \$335,239	2012-15
	NSF Astronomy and Astrophysics Grants, \$295,344	2012-16
	NASA Astrophysics Data Analysis Program, \$361,943	2009-12
	NSF Astronomy and Astrophysics Grants, \$352,550	2008-11
DOE Outstanding Junior Investigator, \$450,000	2008-12	

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TOTAL:            **\$4.2 million**

<b>Publications (Refereed or Submitted)</b>	184. P. Lemos, N. Weaverdyck et al (DES collaboration), “Robust sampling for weak lensing and clustering analyses with the Dark Energy Survey”, arXiv:2202.08233
	183. A. Amon et al (DES collaboration), “Consistent lensing and clustering in a low-S8 Universe with BOSS, DES Year 3, HSC Year 1 and KiDS-1000”, arXiv:2202.07440
	182. S. Mau et al (DES collaboration), “Milky Way Satellite Census. IV. Constraints on Decaying Dark Matter from Observations of Milky Way Satellite Galaxies”, arXiv:2221.11740
	181. L.F. Secco et al (DES collaboration), “Dark Energy Survey Year 3 Results: Three-Point Shear Correlations and Mass Aperture Moments”, arXiv:2201.05227
	180. A. Kovacs et al (DES collaboration), “The DES view of the Eridanus supervoid and the CMB Cold Spot”, arXiv:2112.07699
	179. E. Trott and D. Huterer, “Challenges for the statistical gravitational-wave method to measure the Hubble constant”, arXiv:2112.00241
	178. H. Camacho et al (DES collaboration), “Cosmic Shear in Harmonic Space from the Dark Energy Survey Year 1 Data: Compatibility with Configuration Space Results”, arXiv:2111.07203
	177. Y. Wen, E. Nesbit, D. Huterer and G.S. Watson, “Misinterpreting Modified Gravity as Dark Energy: a Quantitative Study”, <i>Phys. Rev. D</i> , in press, arXiv:2111.02866
	176. M. Gatti et al (DES collaboration) “Dark Energy Survey Year 3 results: cosmology with moments of weak lensing mass maps”, arXiv:2110.10141
	175. D. Zurcher et al (DES collaboration), “Dark Energy Survey Year 3 results: Cos-

- mology with peaks using an emulator approach”, arXiv:2110.10135
- 174: S. Pandey et al (DES collaboration), “Cross-correlation of DES Y3 lensing and ACT/Planck thermal Sunyaev Zel’dovich Effect II: Modeling and constraints on halo pressure profiles”, arXiv:2108.01601
- 173: M. Gatti et al (DES collaboration), “Cross-correlation of DES Y3 lensing and ACT/Planck thermal Sunyaev Zel’dovich Effect I: Measurements, systematics tests, and feedback model constraints”, arXiv:2108.01600
- 172: U. Andrade, D. Anbajagane, R. von Marttens, D. Huterer, and J. Alcaniz, “A Test of the Standard Cosmological Model with Geometry and Growth”, arXiv:2107.07538
- 171: M. Lokken et al., “Superclustering with the Atacama Cosmology Telescope and Dark Energy Survey: I. Evidence for thermal energy anisotropy using oriented stacking”, arXiv:2107.05523
- 170: A. Carnero Rosell et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Galaxy Sample for BAO Measurement”, arXiv:2107.05477
- 169: T.M.C. Abbott et al. (DES collaboration), “Dark Energy Survey Year 3 Results: A 2.7% measurement of Baryon Acoustic Oscillation distance scale at redshift 0.835”, arXiv:2107.04646
- 168: I. Ferrero et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Galaxy mock catalogs for BAO analysis”, arXiv:2107.04602
- 167: T.M.C. Abbott et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing”, arXiv:2105.13549
- 166: E. Krause et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Multi-Probe Modeling Strategy and Validation”, arXiv:2105.13548
- 165: J. DeRose et al. (DES collaboration), “Dark Energy Survey Year 3 results: cosmology from combined galaxy clustering and lensing – validation on cosmological simulations”, arXiv:2105.13547
- 164: A. Porredon et al. (DES collaboration), “Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and galaxy-galaxy lensing using the MagLim lens sample” arXiv:2105.13546
- 163: S. Pandey et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Constraints on cosmological parameters and galaxy bias models from galaxy clustering and galaxy-galaxy lensing using the redMaGiC sample”, arXiv:2105.13545
- 162: L. Secco et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Modeling Uncertainty”, *Phys. Rev. D*, **105**, 023515 (2021)
- 161: A. Amon et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Data Calibration”, *Phys. Rev. D*, **105**, 023514 (2021)
- 160: C. Sanchez et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Exploiting small-scale information with lensing shear ratios”, arXiv:2105.13542
- 159: J. Prat et al. (DES collaboration), “Dark Energy Survey Year 3 Results: High-precision measurement and modeling of galaxy-galaxy lensing”, arXiv:2105.13541
- 158: M. Rodriguez-Monroy et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Galaxy clustering and systematics treatment for lens galaxy samples”, arXiv:2105.13540

- 157: N. Jeffrey et al. (DES collaboration), “Dark Energy Survey Year 3 results: curved-sky weak lensing mass map reconstruction”, *MNRAS*, **505**, 4626 (2021)
- 156: S. Lee et al. (DES collaboration), “Probing gravity with the DES-CMASS sample and BOSS spectroscopy”, *MNRAS*, **509**, 4982 (2021)
- 155: S. Lee et al. (DES collaboration), “Galaxy-galaxy lensing with the DES-CMASS catalogue: measurement and constraints on the galaxy-matter cross-correlation”, *MNRAS*, **509**, 2033 (2021)
- 154: B. Hayden, D. Rubin, et al., “The HST See Change Program: I. Survey Design, Pipeline, and Supernova Discoveries”, *Astrophys. J.*, **912**, 87 (2021)
- 153: T. Abbott et al. (DES collaboration), “The Dark Energy Survey Data Release 2”, *ApJS* **255**, 20 (2021)
- 152: R. Cawthon et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Calibration of Lens Sample Redshift Distributions using Clustering Redshifts with BOSS/eBOSS”, arXiv:2012.12826
- 151: S. Everett et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Measuring the Survey Transfer Function with Balrog”, *ApJS*, **258**, 15 (2022)
- 150: W. G. Hartley et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Deep Field Optical + Near-Infrared Images and Catalogue”, *MNRAS*, **509**, 3547 (2022) Lee
- 149: P. Lemos et al. (DES collaboration), “Assessing tension metrics with Dark Energy Survey and Planck data”, *MNRAS*, **505**, 6179 (2021)
- 148: M. Gatti et al. (DES collaboration), “Dark Energy Survey Year 3 Results: Clustering Redshifts – Calibration of the Weak Lensing Source Redshift Distributions with redMaGiC and BOSS/eBOSS”, *MNRAS*, **510**, 1223 (2022)
- 147: O. Friedrich et al (DES collaboration), “Dark Energy Survey Year 3 Results: Covariance Modelling and its Impact on Parameter Estimation and Quality of Fit”, *MNRAS*, **508**, 3125 (2021)
- 146: J. Myles et al (DES collaboration), “Dark Energy Survey Year 3 Results: Redshift Calibration of the Weak Lensing Source Galaxies”, *MNRAS* **505**, 4249 (2021)
- 145: C. Doux et al (DES collaboration), “Consistency of cosmic shear analyses in harmonic and real space”, *MNRAS*, **503**, 3796 (2021)
- 144: A. Chen et al (DES collaboration), “Constraints on dark matter to dark radiation conversion in the late universe with DES-Y1 and external data”, *Phys. Rev. D*, **123**, 123528 (2021)
- 143: C. Doux et al (DES collaboration), “Dark Energy Survey internal consistency tests of the joint cosmological probes analysis with posterior predictive distributions”, *MNRAS*, **503**, 2688 (2021)
- 142: M. Gatti, E. Sheldon, et al (DES collaboration), “Dark Energy Survey Year 3 Results: Weak Lensing Shape Catalogue”, *MNRAS*, **504**, 4312 (2021)
- 141: I. Sevilla-Noarbe et al (DES collaboration), “Dark Energy Survey Year 3 Results: Photometric Data Set for Cosmology”, *Astrophys. J. Lett.*, **254**, 24 (2021)
- 140: J. Muir et al (DES collaboration), “DES Y1 results: Splitting growth and geometry to test  $\Lambda$ CDM”, *Phys. Rev. D*, **103**, 023528 (2021)
- 139: D. Huterer, “Specific Effect of Peculiar Velocities on Dark-Energy Constraints from

- Type Ia Supernovae”, *Astrophys. J. Lett.*, **904**, L28 (2020)
138. C. To et al (DES collaboration), “Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations”, *Phys. Rev. Lett.*, **126**, 041301 (2021)
137. E. O. Nadler et al (DES collaboration), “Milky Way Satellite Census III: Constraints on Dark Matter Properties from Observations of Milky Way Satellite Galaxies”, *Phys. Rev. Lett.*, **126**, 091101 (2021)
136. H. J Huang, T. Eifler, R. Mandelbaum, G. Bernstein, A. Chen, A. Choi, J. García-Bellido, D. Huterer et al (DES collaboration), “Dark Energy Survey Year 1 Results: Constraining Baryonic Physics in the Universe”, *MNRAS*, **502**, 6010 (2021)
135. N. Weaverdyck and D. Huterer, “Mitigating contamination in LSS surveys: a comparison of methods”, *MNRAS*, **503**, 5061 (2021)
134. E. Macaulay et al (DES collaboration), “Weak Lensing of Type Ia Supernovae from the Dark Energy Survey”, *MNRAS*, **496**, 4051 (2020)
133. A. Palmese et al (DES collaboration), “A statistical standard siren measurement of the Hubble constant from the LIGO/Virgo gravitational wave compact object merger GW190814 and Dark Energy Survey galaxies”, *Astrophys. J.*, **900**, L33 (2020)
132. A. Tanoglidis et al (DES collaboration), “Shadows in the Dark: Low-Surface-Brightness Galaxies Discovered in the Dark Energy Survey”, *ApJS* **252**, 18 (2021)
131. T. Abbott et al (DES collaboration), “Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances and Weak Lensing”, *Phys. Rev. D*, **102**, 023509 (2020)
130. J. Muir, G. Bernstein, D. Huterer et al (DES collaboration), “Blinding multi-probe cosmological experiments”, *MNRAS*, **494**, 4454 (2020)
129. P. Vielzeuf, A. Kovacs, U. Demirbozan, P. Fosalba, E. Baxter, N. Hamaus, D. Huterer et al (DES collaboration), “Dark Energy Survey Year 1 Results: the lensing imprint of cosmic voids on the Cosmic Microwave Background”, *MNRAS*, **500**, 464 (2020)
128. A.J. Shajib et al, “STRIDES: A 3.9 per cent measurement of the Hubble constant from the strongly lensed system DES J0408-5354”, *MNRAS*, **494**, 6072 (2020)
127. S. Adhikari and D. Huterer, “Super-CMB fluctuations can resolve the Hubble tension”, *Phys. Dark Univ.*, **28** (2020) 100539
126. J. Soltis, A. Farahi, D. Huterer and C.M. Liberato, “Percent-Level Test of Isotropic Expansion Using Type Ia Supernovae”, *Phys. Rev. Lett.*, **122**, 191301 (2019)
125. D. Huterer, “Mapping the Universe with Dark Energy Survey”, *Int.J.Mod.Phys. A33* (2018) no.34, 1845015
124. E. Macaulay et al. (DES collaboration), “First Cosmological Results using Type Ia Supernovae from the Dark Energy Survey: Measurement of the Hubble Constant”, *MNRAS* **486**, 2184 (2019)
123. T.M.C. Abbott et al. (DES collaboration), “Cosmological Constraints from Multiple Probes in the Dark Energy Survey”, *Phys. Rev. D*, **100**, 071301 (2019)
122. T.M.C. Abbott et al. (DES collaboration), “Dark Energy Survey Year 1 Results: Constraints on Extended Cosmological Models from Galaxy Clustering and Weak Lensing”, *Phys. Rev. D*, **100**, 023505 (2019)
121. Y. Omori et al (DES collaboration) “Dark Energy Survey Year 1 Results: Cross-

- correlation between DES Y1 galaxy weak lensing and SPT+Planck CMB weak lensing”, *Phys. Rev. D*, **100**, 043517 (2019)
120. Y. Omori et al (DES collaboration) “Dark Energy Survey Year 1 Results: tomographic cross-correlations between DES galaxies and CMB lensing from SPT+Planck”, *Phys. Rev. D*, **100**, 043501 (2019)
119. T.M.C. Abbott et al. (DES collaboration), “Dark Energy Survey Year 1 Results: Dark Energy Survey Year 1 Results: Joint Analysis of Galaxy Clustering, Galaxy Lensing, and CMB Lensing Two-point Functions”, *Phys. Rev. D*, **100**, 023541 (2019)
118. S. Adhikari and D. Huterer “A New Measure of Tension Between Experiments”, *JCAP*, **01** (2019) 036
117. J. Muir, S. Adhikari and D. Huterer “The Covariance of CMB Anomalies”, *Phys. Rev. D*, **98**, 023521 (2018)
116. X. Li, N. Weaverdyck, S. Adhikari, D. Huterer, J. Muir, and H-Y. Wu “The Quest for the Inflationary Spectral Runnings in the Presence of Systematic Errors”, *Astrophys. J.*, **862**, 137 (2018)
115. M. Troxel et al (DES collaboration), “Survey geometry and the internal consistency of recent cosmic shear measurements”, *MNRAS* **479**, 4498 (2018)
114. N. MacCrann et al (DES collaboration), “DES Y1 Results: Validating Cosmological Parameter Estimation Using Simulated Dark Energy Surveys”, *MNRAS* **480**, 4614 (2018)
113. T.M.C. Abbott et al. (DES collaboration), “Dark Energy Survey Year 1 Results: A Precise H0 Estimate from DES Y1, BAO, and D/H Data”, *MNRAS* **480**, 3879 (2018)
112. C. Guidorzi et al (18 authors) “Improved Constraints on H0 from a combined analysis of gravitational-wave and electromagnetic emission from GW170817”, *Astrophys. J.*, **851**, L36 (2017)
111. B.P. Abbott et al (LIGO, DES etc collaborations), “A gravitational-wave standard siren measurement of the Hubble constant” *Nature*, **551**, 85 (2017)
110. N. Weaverdyck, J. Muir and D. Huterer “Integrated Sachs-Wolfe map reconstruction in the presence of systematic errors”, *Phys. Rev. D*, **97**, 043515 (2018)
109. D. Huterer and D.L. Shafer, “Dark energy two decades after: Observables, probes, consistency tests”, *Rep. Prog. Phys.* **81** (2018) 016901
108. M.A. Troxel et al. (DES collaboration), “Dark Energy Survey Year 1 Results: Cosmological Constraints from Cosmic Shear”, *Phys. Rev. D*, **98**, 043528 (2018)
107. T.M.C. Abbott et al. (DES collaboration), “Dark Energy Survey Year 1 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing”, *Phys. Rev. D*, **98**, 043526 (2018)
106. H.-Y. Wu and D. Huterer, “Sample variance in the local measurements of the Hubble constant”, *MNRAS*, **471**, 4946 (2017)
105. D. Huterer, D.L. Shafer, D. Scolnic and F. Schmidt, “Testing LCDM at the lowest redshifts with SN Ia and galaxy velocities”, *JCAP*, **05** (2017) 015
104. A. Stark, C.J. Miller and D. Huterer, “Cosmology with Galaxy Cluster Phase Spaces”, *Phys. Rev. D*, **96**, 023543 (2017)
103. A. Kovács et al, “Imprint of DES super-structures on the Cosmic Microwave Background”, *MNRAS* **465**, 4166 (2017)

102. N. MacCrann et al, “Inference from the small scales of cosmic shear with current and future Dark Energy Survey data”, *MNRAS* **465**, 2567 (2017)
101. C. Sanchez et al, “Cosmic Voids and Void Lensing in the Dark Energy Survey Science Verification Data”, *MNRAS* **465**, 746 (2016)
100. J. Muir and D. Huterer, “Peeling off the late Universe: Reconstructing the ISW map with galaxy surveys”, *Phys. Rev. D*, **94**, 043503 (2016)
99. E.J. Baxter et al, “Joint Measurement of Lensing-Galaxy Correlations Using SPT and DES SV Data”, *MNRAS* **461**, 4099 (2016)
98. D.J. Schwarz, C.J. Copi, D. Huterer and G.D. Starkman “CMB Anomalies after Planck”, *Class. and Quantum Gravity* **33**, Article ID **184001**, (2016)
97. M. Yoon and D. Huterer, “Kinematic dipole detection with galaxy surveys: forecasts and requirements”. *Astrophys. J.*, **813**, L18 (2015)
96. D. Huterer, D. L. Shafer and F. Schmidt, “No evidence for bulk velocity from type Ia supernovae”, *JCAP* **12** (2015) 033
95. I. Jee, E. Komatsu, S. Suyu and D. Huterer, “Time-delay Cosmography: Increased Leverage with Angular Diameter Distances”, *JCAP* **04** (2016) 031
94. T. Giannantonio et al (DES collaboration), “CMB lensing tomography with the DES Science Verification galaxies”, *MNRAS* **456**, 3213 (2016)
93. D. Schwarz et al., “Testing foundations of modern cosmology with SKA all-sky surveys”, *PoS AASKA14*, **32** (2015)
92. J. Bielefeld, D. Huterer and E. Linder, “Cosmological Leverage from the Matter Power Spectrum in the Presence of Baryon and Nonlinear Effects”, *JCAP* **05** (2015) 023
91. E.J. Ruiz and D. Huterer, “Banana Split: Testing the Dark Energy Consistency with Geometry and Growth”, *Phys. Rev. D*, **91**, 063009 (2015)
90. D. L. Shafer and D. Huterer, “Multiplicative errors in the galaxy power spectrum: self-calibration of unknown photometric systematics for precision cosmology”, *MNRAS* **447**, 2961 (2015)
89. M. Yoon, D. Huterer, C. Gibelyou, A. Kovacs and I. Szapudi, “Dipolar modulation in number counts of WISE-2MASS sources”, *MNRAS* **445**, L60 (2014)
88. A. Evrard, P. Arnault, D. Huterer and A. Farahi, “A Model for Multi-property Galaxy Cluster Statistics”, *MNRAS* **441**, 3562 (2014)
87. D. Shafer and D. Huterer, “Chasing the phantom: A closer look at type Ia supernovae and the dark energy equation of state”, *Phys. Rev. D* **89**, 063510 (2014)
86. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “Large-Scale Alignments from WMAP and Planck”, *MNRAS*, **449**, 3458 (2015)
85. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “Lack of large-angle TT correlations persists in WMAP and Planck”, *MNRAS*, **451**, 2978 (2015)
84. B. Jain et al, “Novel Probes of Gravity and Dark Energy”, submitted to *Astroparticle Physics* (arXiv:1309.5384)
83. S. Dodelson et al, “Dark Energy and CMB”, *Astropart. Phys.*, **63**, 1 (2015)
82. D. Huterer et al, “Growth of Cosmic Structure: Probing Dark Energy Beyond the



- Expansion”, *Astropart. Phys.*, **63**, 23 (2015)
81. J. Newman et al, “Spectroscopic Needs for Imaging Dark Energy Experiments: Photometric Redshift Training and Calibration”, *Astropart. Phys.*, **63**, 81 (2015)
80. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “Large-Angle CMB Suppression and Polarisation Predictions”, *MNRAS*, **434**, 3590 (2013)
79. W. Fang, A. Becker, D. Huterer, and E. Lim, “Joint Minkowski Functionals and Bispectrum Constraints on Non-Gaussianity in the CMB”, *Phys. Rev. D* **88**, 041302 (2013)
78. H.-Y. Wu and D. Huterer, “Impact of systematic uncertainties in N-body simulations on the precision cosmology from galaxy clustering”, *MNRAS*, **434**, 2256 (2013)
77. D. Huterer, C. Cunha and W. Fang, “Calibration errors unleashed: effects on cosmological parameters and requirements for large-scale structure surveys”, *MNRAS*, **432**, 2945 (2013)
76. A. Becker and D. Huterer, “First constraints on the running of non-Gaussianity”, *Phys. Rev. Lett.*, **109**, 121302 (2012)
75. E. Ruiz, D. Shafer, D. Huterer, and A. Conley, “Principal components of dark energy with SNLS supernovae: the effects of systematic errors”, *Phys. Rev. D* **86**, 103004 (2012)
74. C. Cunha, D. Huterer, H. Lin, M. Busha and R. Wechsler, “Spectroscopic failures in photometric redshift calibration: cosmological biases and survey requirements”, *MNRAS*, **444**, 129 (2014)
73. A. Becker, D. Huterer, and K. Kadota, “Constraining Scale-Dependent Non-Gaussianity with Future Large-Scale Structure and the CMB”, *JCAP* **12** (2012) 034
72. C. Gibelyou and D. Huterer, “Dipoles in the Sky”, *MNRAS*, **427**, 1994 (2012)
71. C. Cunha, D. Huterer, M. Busha and R. Wechsler, “Sample variance in photometric redshift calibration: cosmological biases and survey requirements”, *MNRAS*, **423**, 909 (2012)
70. E. Calabrese, D. Huterer, E.V. Linder, A. Melchiorri, and L. Pagano, “Limits on Dark Radiation, Early Dark Energy, and Relativistic Degrees of Freedom”, *Phys. Rev. D*, **83**, 023504 (2011)
69. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “Bias in low-multipole CMB reconstructions”, *MNRAS*, **418**, 505 (2011)
68. M. March, R. Trotta, L. Amendola and D. Huterer, “Robustness to systematics for future dark energy probes”, *MNRAS*, **415**, 143 (2011)
67. M. Mortonson, W. Hu and D. Huterer, “Simultaneous Falsification of LambdaCDM and Quintessence with Massive, Distant Clusters”, *Phys. Rev. D*, **83**, 023015 (2011)
66. E. Calabrese, R. de Putter, D. Huterer, E.V. Linder and A. Melchiorri, “Future CMB Constraints on Early, Cold, or Stressed Dark Energy”, *Phys. Rev. D*, **83**, 023011 (2011)
65. S. Shandera, N. Dalal and D. Huterer, “A generalized local ansatz and its effect on halo bias”, *JCAP* **03** (2011) 017
64. C. Zunckel, D. Huterer and G.D. Starkman, “Testing the statistical isotropy of large scale structure with multipole vectors”, *Phys. Rev. D*, **84**, 043005 (2011)
63. A. Becker, D. Huterer and K. Kadota, “Scale-Dependent Non-Gaussianity as a

Generalization of the Local Model”, *JCAP* **01** (2011) 006

62. C. Gibelyou, D. Huterer and W. Fang, “Detectability of large-scale power suppression in the galaxy distribution”, *Phys. Rev. D*, **82**, 013009 (2010)

61. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “Large-scale anomalies in the CMB”, *Adv. Astronomy*, **Vol. 2010**, Article ID 847541 (2010)

60. D. Sarkar, D. Huterer, C.J. Copi, G.D. Starkman and D.J. Schwarz, “Missing Power vs low- $l$  Alignments in the Cosmic Microwave Background: No Correlation in the Standard Cosmological Model”, *Astroparticle Phys.*, **34**, 591 (2010)

59. M. Mortonson, D. Huterer and W. Hu, “Figures of merit for present and future dark energy probes”, *Phys. Rev. D*, **82**, 063004 (2010)

58. C. Cunha, D. Huterer and O. Doré, “Primordial non-Gaussianity from the covariance of galaxy cluster counts”, *Phys. Rev. D*, **82**, 023004 (2010)

57. A. Hearin, A. Zentner, Z. Ma, and D. Huterer, “A General Study of The Influence of Catastrophic Photometric Redshift Errors on Cosmology with Cosmic Shear Tomography” *Astrophys. J.*, **720**, 1351 (2010)

56. R. de Putter, D. Huterer and E. Linder, “Measuring the Speed of Dark: Detecting Dark Energy Perturbations”, *Phys. Rev. D*, **82**, 023004 (2010)

55. D. Huterer, “Weak lensing, dark matter and dark energy”, *Gen. Rel. Grav.*, **42**, 2177 (2010)

54. M. Mortonson, W. Hu and D. Huterer, “Testable dark energy predictions from current data”, *Phys. Rev. D*, **81**, 063007 (2010)

53. R. Zhang and D. Huterer, “Disks in the sky: A reassessment of the WMAP ‘cold spot’”, *Astroparticle Phys.*, **33**, 69 (2010)

52. M. Mortonson, W. Hu and D. Huterer, “Hiding dark energy transitions at low redshift”, *Phys. Rev. D*, **79**, 067301 (2009)

51. C. Cunha, D. Huterer and J.A. Frieman, “Constraining Dark Energy with Clusters: Complementarity with Other Probes”, *Phys. Rev. D*, **80**, 064532 (2009)

50. Bernstein and D. Huterer, “Catastrophic photometric redshift errors: weak lensing survey requirements”, *MNRAS*, **401**, 1399 (2010)

49. D. Huterer, “The Road to Dark Energy”, *Mod. Phys. Lett.*, **23**, 1346 (2008)

48. M. Mortonson, W. Hu and D. Huterer, “Falsifying paradigms for cosmic acceleration”, *Phys. Rev. D*, **79**, 023004 (2008)

47. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “No large-angle correlations on the non-Galactic microwave sky”, *MNRAS*, **399**, 295 (2009)

46. K.M. Smith and D. Huterer, “No Evidence for the Cold Spot in the NVSS Radio Survey”, *MNRAS*, **403**, 2 (2010)

45. J. Frieman, M. Turner and D. Huterer, “Dark Energy and the Accelerating Universe”, *Ann. Rev. Astro. Astrophys.*, **46**, 385 (2008)

44. G. Zhao, D. Huterer and X. Zhang, “High-resolution temporal constraints on the dynamics of dark energy”, *Phys. Rev. D*, **77**, 121302 (2008)

43. N. Dalal, O. Doré, D. Huterer and A. Shirokov, “The imprints of primordial non-gaussianities on large-scale structure: scale dependent bias and abundance of virialized

- objects”, *Phys. Rev. D*, **77**, 123514 (2008)
42. M.S. Turner and D. Huterer, “Cosmic Acceleration, Dark Energy and Fundamental Physics”, *J. Phys. Soc. Jpn.* **76**, 111015 (2007)
41. L.M. Krauss, K. Jones-Smith and D. Huterer, “Dark Energy, A Cosmological Constant, and Type Ia Supernovae”, *New Journal of Physics*, **9**, 141 (2007)
40. P.-S. Corasaniti, D. Huterer and A. Melchiorri, “Exploring the Dark Energy Redshift Desert with the Sandage-Loeb Test”, *Phys. Rev. D*, **75**, 062001 (2007)
39. D. Huterer and H.V. Peiris, “Dynamical behavior of generic quintessence potentials: constraints on key dark energy observables”, *Phys. Rev. D*, **75**, 083503 (2007)
38. D. Huterer and E.V. Linder, “Separating Dark Physics from Physical Darkness: Minimalist Modified Gravity vs. Dark Energy”, *Phys. Rev. D*, **75**, 023519 (2007)
37. W. Hu, D. Huterer and K. Smith, “Supernovae, Lensed CMB and Dark Energy”, *Astrophys. J. Lett.*, **650**, L13 (2006)
36. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “The Uncorrelated Universe: Statistical Anisotropy and the Vanishing Angular Correlation Function in WMAP Years 1-3”, *Phys. Rev. D*, **75**, 023507 (2007)
35. A. Cooray, D. Huterer and D. Holz, “Problems with Small Area Surveys: Lensing Covariance of Supernova Distance Measurements” *Phys. Rev. Lett.*, **96**, 021301 (2006)
34. A. Cooray, D. Holz and D. Huterer, “Cosmology from supernova magnification maps” *Astrophys. J. Lett.*, **637**, L77 (2006)
33. C. Gordon, W. Hu, D. Huterer and T. Crawford, “Spontaneous Isotropy Breaking: A Mechanism for CMB Multipole Alignments” *Phys. Rev. D.*, **72**, 103002 (2005)
32. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “On the large-angle anomalies of the microwave sky”, *MNRAS*, **367**, 79 (2006)
31. Z. Ma, W. Hu and D. Huterer, “Effect of Photometric Redshift Errors on Weak Lensing Tomography” *Astrophys. J.*, **363**, 21 (2006)
30. D. Huterer, M. Takada, G. Bernstein and B. Jain, “Systematic Errors in Future Weak Lensing Surveys: Requirements and Prospects for Self-Calibration”, *MNRAS*, **366**, 101 (2006)
29. E. Linder and D. Huterer, “How Many Dark Energy Parameters?”, *Phys. Rev. D.*, **72**, 043509 (2005)
28. D. Huterer and M. White, “Nulling Tomography with Weak Gravitational lensing” *Phys. Rev. D.*, **72**, 043002 (2005)
27. D. Huterer and M. Takada, “Calibrating the Nonlinear Matter Power Spectrum: Requirements for Future Weak Lensing Surveys”, *Astroparticle Phys.*, **23**, 369 (2005)
26. D. Huterer and T. Vachaspati, “Distribution of Singularities in the Cosmic Microwave Background Polarization”, *Phys. Rev. D*, **72**, 043004 (2005)
25. SNAP collaboration, “Supernova / Acceleration Probe: A Satellite Experiment to Study the Nature of the Dark Energy”, *PASP*, submitted (astro-ph/0405232)
24. D. Huterer, C.R. Keeton and C.-P. Ma, “Effects of Ellipticity and Shear on Gravitational Lens Statistics”, *Astrophys. J.*, **624**, 34 (2005)
23. D. Huterer and A. Cooray, “Uncorrelated Estimates of Dark Energy Evolution”,

- Phys. Rev. D.*, **71**, 023506 (2005)
22. D.J. Schwarz, G.D. Starkman, D. Huterer and C.J. Copi, “Is the low- $\ell$  microwave background cosmic?”, *Phys. Rev. Lett.*, **93**, 221301 (2004)
  21. “Redshift Accuracy Requirements for Future Supernova and Number Count Surveys”, D. Huterer, A. Kim, L.M. Krauss and T. Broderick, *Astrophys. J.*, **615**, 595 (2004)
  20. “Multipole Vectors—a new representation of the CMB sky and evidence for statistical anisotropy or non-Gaussianity at  $2 \leq \ell \leq 8$ ”, C.J. Copi, D. Huterer and G.D. Starkman, *Phys. Rev. D*, **70**, 043515 (2004)
  19. D. Huterer and C.-P. Ma, “Constraints on Dark Energy and the Inner Cluster Mass Profile from Strong Lensing Statistics”, *Astrophys. J.*, **600**, L7 (2004)
  18. D. Huterer and T. Vachaspati, “Gravitational Lensing by Cosmic Strings in the Era of Wide-Field Surveys”, *Phys. Rev. D*, **68**, 041301(R) (2003)
  17. J. Rhodes et al., “Weak Lensing from Space I: Prospects for the Supernova/Acceleration Probe”, *Astroparticle. Phys.* **20**, 377 (2004)
  16. A. Cooray, D. Huterer and D. Baumann, “Growth Rate of Large Scale Structure as a powerful probe of Dark Energy”, *Phys. Rev. D*, **69**, 027301 (2004)
  15. A.N. Davis, D. Huterer and L.M. Krauss, “Strong Lensing Constraints on the Luminosity Function and Density Profile of Elliptical Galaxies”, *MNRAS*, **344**, 1029 (2003)
  14. D. Huterer and E. Linder, “Why Supernovae at  $z > 1$  are needed to Probe Dark Energy”, *Phys. Rev. D*, **67**, 081303 (2003)
  13. J. Frieman, D. Huterer, E. Linder and M. Turner, “Probing Dark Energy with Supernovae: Exploiting Complementarity with the Cosmic Microwave Background”, *Phys. Rev. D*, **67**, 083505 (2003)
  12. D. Huterer and G.D. Starkman, “Parameterization of Dark-Energy Properties: a Principal-Component Approach”, *Phys. Rev. Lett.*, **90**, 031301 (2003)
  11. “Weak Lensing as a Calibrator of the Cluster Mass-Temperature Relation”, D. Huterer and M. White, *Astrophys. J.*, **578**, L95 (2002)
  10. D. Huterer, G.D. Starkman and M. Trodden, “Is the Universe Inflating? Dark Energy and the Future of the Universe”, *Phys. Rev. D*, **66**, 043511 (2002)
  9. D. Huterer, “Weak Lensing and Dark Energy”, *Phys. Rev. D*, **62**, 063001 (2002)
  8. A. Cooray, W. Hu, D. Huterer and M. Joffe, “Measuring Angular Diameter Distances through Halo Clustering”, *Astrophys. J.* **557**, L7 (2001)
  7. D. Huterer and M.S. Turner, “Probing Dark Energy: Methods and Strategies”, *Phys. Rev. D*, **64**, 123527 (2001)
  6. D. Huterer, L. Knox and R.C. Nichol, “The Angular Power Spectrum of EDSGC galaxies”, *Astrophys. J.*, **555**, 547 (2001)
  5. D. Huterer, and M.S. Turner, “On the Degree of Scale Invariance of Inflationary Perturbations”, *Phys. Rev. D* **62**, 063503 (2000)
  4. “Prospects for Probing the Dark Energy via Supernova Distance Measurements”, D. Huterer and M.S. Turner, *Phys. Rev. D* **60**, 081301 (1999)

3. A.R. Cooray and D. Huterer, “Gravitational Lensing as a Probe of Quintessence”, *Astrophys. J.* **513**, L95 (1999)
2. D. Huterer, K.I. Paularena and A. Szabo, “Observation and Analysis of Selected IMP 8 and WIND Bow Shock Crossings in Late 1994”, *J. Geophys. Res.* **102 A9**, 19761 (1997)
1. D. Huterer, D.D. Sasselov and P.L. Schechter, “Distances to Nearby Galaxies: Combining Fragmentary Data Using Four Different Methods”, *Astron. J.* **110**, 2705 (1995)

**Articles  
not Refereed**

20. T. Abbott et al (DES collaboration), “The Dark Energy Survey Data Release 2”, arXiv:2101.05765
19. T.M.C. Abbott et al (DES collaboration), “The Dark Energy Survey Data Release 1”, (arXiv:1801.03181)
18. The DESI Collaboration, “The DESI Experiment Part II: The Instrument Design”, arXiv:1611.00037
17. The DESI Collaboration, “The DESI Experiment Part I: Science, Targeting, and Survey Design”, arXiv:1611.00036
16. M. Alvarez et al., “Testing Inflation with Large Scale Structure: Connecting Hopes with Reality”, arXiv:1412.4671
15. K.A. Hinton, A. Becker and D. Huterer, “A User-Friendly Dark Energy Model Generator”, arXiv:1506.05088
14. C.J. Copi, D. Huterer, D.J. Schwarz, and G.D. Starkman, “The Oddly Quiet Universe: How the CMB Challenges Cosmology’s Standard Model” (arXiv:1201.2459)
13. D. Schlegel et al. (142 authors), “The BigBOSS Experiment”, arXiv:1106.1706
12. D. Huterer, E. Komatsu and S. Shandera, “Testing the Gaussianity and Statistical Isotropy of the Universe”, arXiv:1012.3744
11. D. Huterer, “The Accelerating Universe”, *Invited book chapter (ed. D. Goodstein)*, arXiv:1010.1162
10. D. Huterer, “Falsifying Paradigms for Cosmic Acceleration”, *Nucl. Phys. Proc. Suppl.* **194**, 239 (2009)
9. A. Albrecht et al., “Findings of the Joint Dark Energy Mission Figure of Merit Science Working Group”, <http://jdem.gsfc.nasa.gov/fomswg.html>, arXiv:0901.0721
8. D. Huterer, “Why is the Solar System Cosmically Aligned?”, *Astronomy*, December 2007
7. “Mysteries at Universe’s Largest Observable Scales”, D. Huterer (Proceedings from the Workshop on Fundamental Physics with Cosmic Microwave Background Radiation, Irvine CA, April 2006), *New Astronomy Reviews*, **50**, 868 (2006) (astro-ph/0608318)
6. “Probing Dark Energy via Weak Gravitational Lensing with the SuperNova Acceleration Probe (SNAP)”, SNAP collaboration, *White paper to the Dark Energy Task Force* (astro-ph/0507460)
5. “Supernova Acceleration Probe: Studying Dark Energy with Type Ia Supernovae”, SNAP collaboration, *White paper to the Dark Energy Task Force* (astro-ph/0507459)
4. “Seeing the Nature of the Accelerating Physics: It’s a SNAP”, SNAP collaboration,

*White paper to the Dark Energy Task Force* (astro-ph/0507458)

3. “Constraints on Dark Energy and Its Models”, D. Huterer, E. V. Linder and J. Weller, *Yellow Book on Dark Energy*, SNOWMASS 2001, eds. E. V. Linder
2. “Constraining the Properties of Dark Energy”, D. Huterer and M.S. Turner, proceedings of 20th Texas Symposium on Relativistic Astrophysics (astro-ph/0103175)
1. “Optimal Supernova Search Strategies”, D. Huterer and M.S. Turner, in the proceedings of *Dark Matter 2000*, ed. D. Cline (astro-ph/0006419)

<b>Invited Talks and Lectures (since 2009)</b>	Laboratório Interinstitucional de e-Astronomia, Brazil (virtual, colloquium)	Nov 2021
	“Cosmological Principle” workshop (virtual, plenary)	Oct 2021
	Yale University, Astronomy Dept (virtual colloquium)	Sep 2021
	Sharif University, Iran (virtual)	Apr 2021
	ESO/MPA Joint Colloquium, Germany (colloquium)	Nov 2020
	Max-Planck Institute for Astrophysics, Germany	Oct 2020
	Lehigh University (colloquium)	Feb 2020
	University of Waterloo, Canada (colloquium)	Oct 2019
	12th Great Lakes Cosmology Workshop, Rochester	Aug 2019
	New Directions in Philosophy of Cosmology Conference, Irvine	Mar 2019
	Oakland University (colloquium)	Jan 2019
	University of North Carolina (colloquium)	Oct 2018
	KICP, Chicago	Oct 2018
	Niš, Serbia	Jun 2018
	Belgrade, Serbia	Jun 2018
	UMass Lowell (colloquium)	Feb 2018
	Case Western Reserve University (colloquium)	Dec 2017
	SUNY Buffalo (colloquium)	Sep 2017
	MIT (colloquium)	May 2017
	Harvard University	Nov 2016
	Washington University, St. Louis	Nov 2016
Ohio State University	Mar 2016	
Great Lakes Planetarium Assoc., Grand Rapids, MI	Oct 2015	
COSMO-15 workshop, Warsaw, Poland	Sep 2015	
University College, London, UK	Jul 2015	
Kloster Irsee, Germany	Jun 2015	
Université Paris Diderot, Paris, France	Jun 2015	
Norditta Institute, Stockholm, Sweden	Jun 2015	
Olympian workshop, Parelia Katerini, Greece	May 2015	
Bielefeld University, Bielefeld, Germany	Apr 2015	
Heidelberg University, Heidelberg, Germany	Apr 2015	
Max-Planck Institute for Astrophysics, Garching, Germany	Apr 2015	
Lorenz Center, Leiden, Netherlands	Feb 2015	
Workshop on primordial physics, CITA, Toronto	Oct 2014	
Institute for Advanced Study, Princeton	Sep 2014	

Workshop on CMB anomalies, CWRU	Sep 2014
COSMO-14 workshop, Chicago, IL	Aug 2014
Aspen Center for Physics	Aug 2014
KIPAC, Stanford University (colloquium)	May 2014
Syracuse University	Feb 2014
Cornell University (Astronomy colloquium)	Feb 2014
Texas Symposium on Relativistic Astrophysics, Dallas, TX	Dec 2013
Fermi National Lab	Dec 2013
Chicheley Hall, Milton Keynes, UK (Royal Society)	Sep 2013
Minneapolis (Snowmass Community Planning Exercise)	Aug 2013
Durham University	Jul 2013
SLAC (Snowmass Community Planning Exercise)	Apr 2013
Lunar and Planetary Institute, Houston, TX	Nov 2012
Carnegie-Mellon University	Aug 2012
Benasque, Spain	Aug 2012
ICTP, Trieste, Italy	Aug 2012
Caltech	Jun 2012
Aspen Center for Physics	May 2012
Fermi National Laboratory	Apr 2012
Perimeter Institute, Canada	Feb 2012
Oakland University	Feb 2012
Case Western Reserve University	Feb 2012
Arizona State University	Jan 2012
University of Minnesota	Oct 2011
Summer school in cosmology, Azores, Portugal	Sep 2011
COSMO workshop, Porto, Portugal	Aug 2011
DARK Center, Copenhagen, Denmark	Aug 2011
University of Cape Town, South Africa	May 2011
“Experiments on Cosmic Frontier” symposium, Fermilab	Mar 2011
KITP workshop, UC Santa Barbara	Feb 2011
UC Berkeley	Feb 2011
Caltech	Jan 2011
University of Pennsylvania	Oct 2010
Lectures at Cosmology school, Kochi, Japan	Aug 2010
Benasque Center for Sciences workshop, Spain	Aug 2010
Argonne National Lab	Jul 2010
Perimeter Institute, Canada	Apr 2010
Wayne State University	Mar 2010
Perimeter Institute, Canada	Jan 2010
Canadian Institute for Theoretical Astrophysics, University of Toronto	Jan 2010
Ohio University, Miami, OH	Jan 2010
Syracuse University	Nov 2009
Washington University, St. Louis	Oct 2009
Lecturer at cosmology school, Tubitak (Turkish) National Observatory	Oct 2009

Cambridge University, Institute for Astronomy	Jul 2009
Marcel Grossman meeting, Paris, France	Jul 2009
Aspen Center for Physics, Aspen, CO	Jun 2009
Galileo Galilei Institute for Theoretical Physics, Firenze, Italy	Mar 2009
SUNY Buffalo	Feb 2009
Argonne National Laboratory	Feb 2009
Aspen Center for Physics, Aspen, CO	Feb 2009

**Outreach  
Lectures  
and Courses  
(since 2009)**

Michigan Math and Science Scholars "Climbing the Distance Ladder to the Big Bang: How astronomers survey the Universe", 2-week course.	summer 2014, 2016-20, 22
Saturday Morning Physics; public talk (audience of ~400).	Feb 2020
Shuler Books and Music, Grand Rapids, MI; public talk (audience of ~100).	Nov 2016
Lunar and Planetary Institute (LPI), Houston; "Big Bang Theory: The Three Pillars" (audience of ~150).	Dec 2012
Connor O'Neill's Traditional Irish Pub, Ann Arbor, MI; Science Cafe: "Dark Energy and the Accelerating Universe" (audience of ~80).	Mar 2009
Saline District Library, Saline, MI; Science Sunday Presents public lecture "Dark Energy and the Accelerating Universe" (audience of ~60).	Nov 2009



<b>Dissertation Committees</b>	Name	Department	Prelim	PhD	Comments
	Vladimir Dergachev	Physics	—	S09	
	Cosmin Ilie	Physics	—	S11	
	Cameron Gibelyou	Physics	F09	W12	Chair
	Adam Becker	Physics	W10	W12	Chair
	Brandon Erickson	Physics	—	W13	
	Tomasz Biesiadzinski	Physics	F09	F13	
	Samuel McDermott	Physics	F10	—	
	Adam Sypniewski	Physics	F11	S14	
	Eduardo Ruiz	Physics	W12	F14	Chair
	Yuan-Yuan Zhang	Physics	W12	F15	
	Alejandro Lopez	Physics	F13	W16	
	Daniel Shafer	Physics	F12	W16	Chair
	Mijin Yoon	Physics	F12	W16	Chair
	Rahul Dutta	Physics	F12	S16	
	Charles Munson	Physics	F13	F16	
	Arya Farahi	Physics	S14	W18	
	Jessica Muir	Physics	F14	W18	Chair
	Vitali Halenka	Physics	F15	S19	
	Rutuparna Das	Physics	F15	W18	
	Joshua Foster	Physics	F17	S21	
	Noah Weaverdyck	Physics	S17	S21	Chair
	Anqi (Angela) Chen	Physics	F17	S21	Chair
	Grace Chesmore	Physics	F18	—	
	Irena Gershkovich	Physics	F18	—	
	Zachary Johnson	Physics	W19	W22	
	Youjia Wu	Physics	W19	F22	Chair
	Carlos Sierra	Physics	F19	—	
	Maya Mallaby-Kay	Physics	F19	—	
	Chami Amarasinghe	Physics	W20	TBD	
	Yuewei Wen	Physics	F19	TBD	Chair
	Ismael Mendoza	Physics	F20	TBD	
	Sikandar Hanif	Physics	F21	TBD	Chair
	Nora Sherman	Physics	W21	TBD	
	Emery Trott	Physics	F21	TBD	Chair
	Otavio Alves	Physics	F21	TBD	Chair
	Eric Gonzalez	Physics	—	F21	
	Taylor Baildon	Physics	—	F21	

**Dissertation  
Committees,  
con't**

Vivienne Baldassare	Astronomy	F15	S17	
Meghin Spencer	Astronomy	W13	S17	
Alejo Stark	Astronomy	S15	F17	
Shurun Tan	EECS	F16	F16	
Xi Meng	Astronomy	F19	TBD	
Christopher Pratt	Astronomy	F20	TBD	
Melvin Varughese	Univ. Cape Town	—	S10	external
Asaf Ben David	Tel Aviv Univ.	—	W13	external
Michelle Lochner	Univ. Cape Town	—	F14	external
Caitlin Adams	Swinburne Univ.	—	W19	external
Simone Peirone	Leiden Univ.	—	S20	external
Supantra Sarma Boruah	Waterloo Univ.	—	S20	external
Eva Nesbit	Syracuse Univ.	—	S21	external

**Undergrad.  
research**

Name	Department	Year(s)	After UM	Comments
Wendy Wong	Physics	2008-09	Job	
Sophie Zhang	Physics	2008-12	Princeton	2 Pubs, Thesis
Jingyuan Chen	Physics	2009-11	UChicago	
Zimu Li	Physics	2010-11	UChicago	
Bardia Nadim	Physics	2013-14	Med School	
Kyle Hinton	Physics	2013-15	Job	Publication
Brian Cook	Physics	2014-15	GA Tech	
Nicholas Weinberg	Physics	2015-17	—	
Levent Toksoz	Physics	2015-17	U. Chicago	Thesis
Michael Liberato	Physics	2016-18	—	
John Soltis	Physics	2016-19	JHU	Publication (PRL)
Mayura Balakrishnan	Physics	2018-20	UM Astro	Thesis
Trevor Gravely	CS/Physics	2018-19	—	
Dhayaa Anbayagane	Physics	2019-20	U. Chicago	Publication
Aidan Meador-Woodruff	Physics	2021-	—	
Jeremy Bradford	Central Conn. State	2010-11	Yale	
Pablo Arnault	U. Pierre/Marie Curie	2012-14	Univ. Paris	Publication
Ilija Rakić	U. of Belgrade, Serbia	2019-20	UC Davis	
Uendert Andrade	National Obs. Rio, Brazil	2019-20	grad school TBD	Publication

<b>Postdoc mentoring</b>	Name	Year(s)	After UM
	Carlos Cunha	2008-11	Data scientist at Bosch
	Devdeep Sarkar	2009-11	Finance at Goldman Sachs
	Wenjuan Fang	2009-12	Faculty at USTC, China
	Hao-Yi (Heidi) Wu	2011-14	Faculty at Boise State Univ.
	Saroj Adhikari	2016-19	Faculty at SUNY Plattsburgh
	Minh Nguyen	2021-24	—